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Working Party on Lighting and Light-Signalling (GRE)
(Fifty-first session, 15-19 September 2003,
agenda item 1.3.2.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 112

(Headlamps emitting an asymmetrical passing beam)

Transmitted by the expert from the Working Party "Brussels 1952" (GTB)

Note: The text reproduced below was prepared by the secretariat (see TRANS/WP.29/GRE/50, paras. 48 and 49). It based on the document without a symbol (informal document No. 21), distributed during the fiftieth GRE session. The document aims to incorporate in the Regulation the specifications of the harmonized driving beam pattern (TRANS/WP.29/GRE/47, para. 60). With regard to the request by GRE (see TRANS/WP.29/GRE/50, para. 49), GTB informed the secretariat on its decision to maintain the use of the letters as proposed in the informal document.

Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

A. PROPOSAL

Paragraph 1.4., amend to read:

"1.4. Headlamps of different "Classes" (A or B or C) mean headlamps identified by particular photometric provisions."

Paragraph 2.1.4., amend to read:

"2.1.4. whether it concerns a Class A or B or C headlamp;"

Paragraph 4.2.2.4., amend to read:

"4.2.2.4. on headlamps meeting the requirements of this Regulation in respect of the driving beam only, the letters "R" for Class A headlamp or "HR" for Class B headlamp or "WR" for Class C headlamp;"

Paragraph 6.3.2.1., amend to read:

"6.3.2.1. The point of intersection (HV) of lines hh and vv shall be situated within the isolux 80 per cent of maximum illumination. This maximum value (E_M) shall not be less than 32 lux for Class A headlamps, 48 lux for Class B headlamps, and 50 lux for Class C headlamps. The maximum value shall in no circumstances exceed 240 lux; in addition, in the case of a combined passing and driving headlamp, this maximum value shall not be more than 16 times the illumination measured for the passing beam at point 75 R (or 75 L)."

Paragraph 6.3.2.2., amend to read:

"6.3.2.2. Starting from point HV, horizontally to the right and left, the illumination shall be not less than 16 lux for Class A headlamp and 24 lux for Class B headlamp up to a distance of 1.125 m and not less than 4 lux for Class A headlamp and 6 lux for Class B headlamp up to a distance of 2.25 m.

In the case of a Class C headlamp, the intensities shall conform to the tables "A" and "B" in annex 3. Table "A" applies in the case where a primary driving beam is being produced with a single light source. Table "B" applies in the case where the driving beam is being produced by a Secondary driving beam headlamp operated with a passing beam headlamp or with a primary driving beam headlamp."

Annex 1, footnote 3/, amend to read (inserting WR, WR PL):

"3/ Indicate the appropriate marking selected from the list below:

C,	C,	C,	R,	CR,	CR,	CR,
	-->	<-->			-->	<-->
C PL,	C PL,	C PL,	R PL,	CR PL,	CR PL,	CR PL,
	---->	<---->			---->	<---->
C/R,	C/R,	C/R,	C/,	C/,	C/,	
	-->	<-->		-->	<-->	
C/R PL,	C/R PL,	C/R PL,	C/PL,	C/PL,	C/PL	
	---->	<---->		---	<-->	
HC,	HC,	HC,	HR,	HCR,	HCR,	HCR,
	-->	<-->			-->	<-->
HC PL,	HC PL,	HC PL,	HR PL,	HCR PL,	HCR PL,	HCR PL,
	---->	<---->			---->	<---->
HC/R,	HC/R,	HC/R,	HC/,	HC/,	HC/,	
	---	<-->		-->	<-->	
HC/R PL,	HC/R PL,	HC/R PL,	HC/PL,	HC/PL,	HC/PL,	
	---->	<---->		---	<-->	
WR,						
WR PL	"					

Annex 3,

Insert after the title tables A and B, to read:

"Annex 3Table A - Class C Headlamp -Primary high beam

Refer to Figure D for details of test point positions

TEST POINT NUMBER	TEST POINT LOCATION	Required illumination in lux	
		Min.	Max.
1	H-V (1/)	(1/)	---
2	H-3R & 3L	20	---
3	H-6R & 6L	7	---
4	H-9R & 9L	4	---
5	H-12R & 12L	1.2	---
6	2U-V	2	---
7	4D-V	---	(2/)
	MAX. LUMINOUS INTENSITY	50	180.0

- (1/) Intensity at H-V shall be equal to or greater than 80 per cent of the maximum intensity in the beam pattern.
- (2/) Intensity at 4D-V shall be equal to or less than 30 per cent of the maximum intensity in the beam pattern.

Table B - Class C Headlamp - Secondary high beam operated with a passing beam headlamp or a primary driving beam headlamp

Refer to Figure E for details of test point positions

TEST POINT NUMBER	TEST POINT LOCATION	Required illumination in lux	
		Min.	Max.
1	H-V (1/)	(1/)	---
2	H-3R & 3L	20	---
3	H-6R & 6L	7	---
6	2U-V	2	---
7	4D-V	---	(2/)
	MAX. LUMINOUS INTENSITY	50	180

- (1/) Intensity at H-V shall be equal to or greater than 80 per cent of the maximum intensity in the beam pattern.
- (2/) Intensity at 4D-V shall be equal to or less than 30 per cent of the maximum intensity in the beam pattern."

Add at the end of annex 3 figures D and E, to read:

"Figure D
Primary Driving Beam

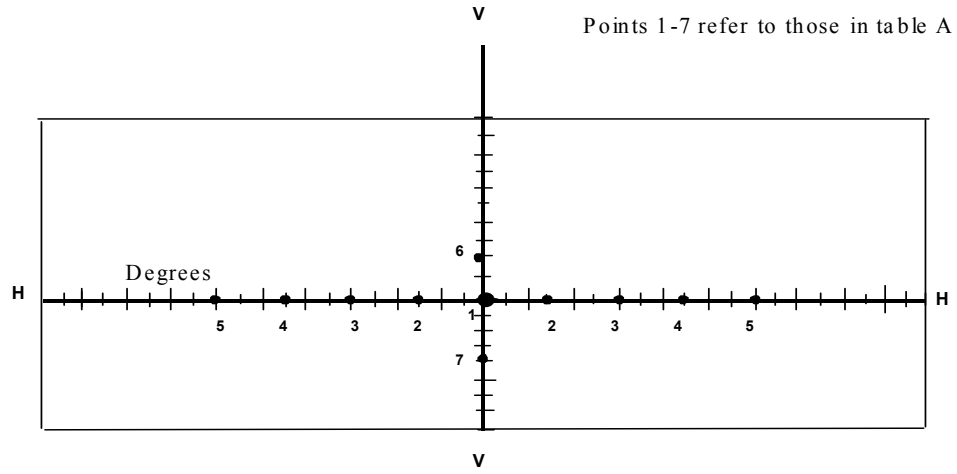
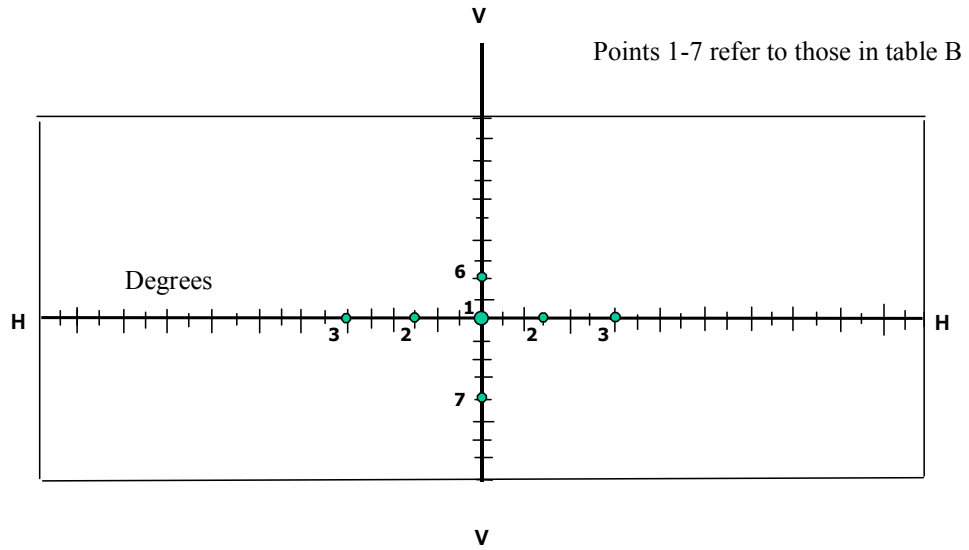


Figure E
Secondary Driving Beam



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